

LOUVER MODEL EA-475-DH

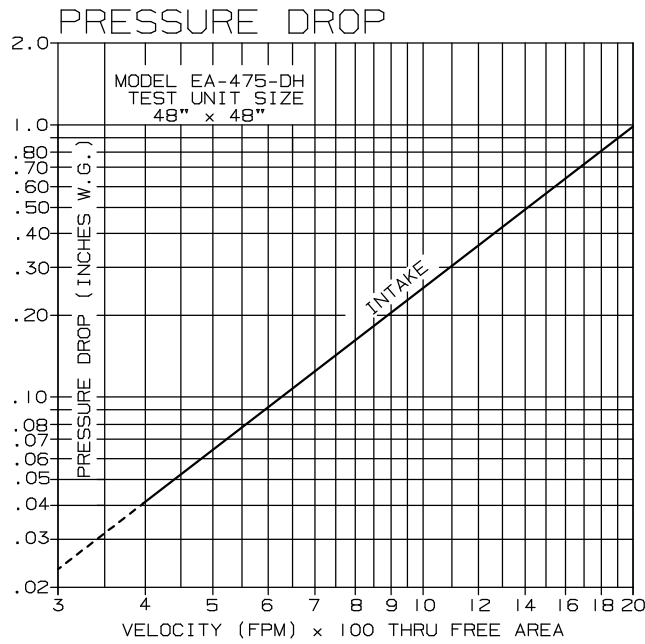
WIND DRIVEN RAIN RESISTANT LOUVER

EXTRUDED ALUMINUM - STATIONARY

PERFORMANCE DATA

TESTS OF A 48"×48" ACCORDING TO AMCA STANDARD 500-L-99
SHOWS LESS THAN .260 INCHES WATER GAUGE PRESSURE DROP
AT 1000 FPM (INTAKE).

RATINGS DO NOT INCLUDE EFFECTS OF BIRDSCREEN.



FREE AREA

		FREE AREA (SQ. FT.)								
		WIDTH								
		12"	18"	24"	30"	36"	42"	48"	54"	60"
HEIGHT	12"	.20	.33	.46	.59	.72	.85	.98	1.11	1.24
	24"	.73	1.19	1.66	2.12	2.59	3.05	3.52	3.98	4.45
	36"	1.19	1.94	2.70	3.46	4.22	4.98	5.74	6.50	7.26
	48"	1.71	2.80	3.90	4.99	6.09	7.18	7.50	9.37	10.46
	60"	2.17	3.56	4.95	6.33	7.72	9.11	10.50	11.89	13.27
	72"	2.63	4.31	5.99	7.67	9.36	11.04	12.72	14.40	16.08
	84"	3.15	5.17	7.19	9.21	11.22	13.24	15.26	17.27	19.29
96"	3.61	5.92	8.23	10.55	12.86	15.17	17.48	19.79	22.10	

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PERFORMANCE DATA

WIND DRIVEN RAINWATER PENETRATION TEST CONDUCTED TO AMCA STANDARD 500-L-99

TEST SIZE 1M x 1M (39.37" x 39.37") CORE AREA, NOMINAL
LOUVER FREE AREA 5.51 SQUARE FEET

CORE VENTILATION (M/S)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	RAINFALL/MPH
FPM	0	98	197	295	394	492	578	666	3 IN/HR RAINFALL AND 29 MPH VELOCITY
FREE AREA VENTILATION (CFM)						5302	6220	7174	
FREE AREA VELOCITY (FPM)						962	1129	1302	
EFFECTIVE RATING CLASS	A	A	A	A	A	A	A	A	
FPM	0	102	198	282	381	468	564	690	8 IN/HR RAINFALL AND 50 MPH VELOCITY
FREE AREA VENTILATION (CFM)	0	1100	2129	3041	4105	5041	6071	7433	
FREE AREA VELOCITY (FPM)	0	200	386	552	745	915	1102	1349	
EFFECTIVE RATING CLASS	B	B	B	B	B	B	B	C	

DISCHARGE COEFFICIENT
INTAKE $C_d = 0.25$ (CLASS 3)

WIND DRIVEN RAIN PENETRATION CLASSIFICATIONS	
CLASS	EFFECTIVENESS %
A	1 TO 0.99%
B	0.989 TO 0.95%
C	0.949 TO 0.80%
D	BELOW 0.80%

DISCHARGE LOSS COEFFICIENT CLASSIFICATIONS	
CLASS	DISCHARGE LOSS COEFFICIENT
1	0.4 AND ABOVE
2	0.3 TO 0.399
3	0.2 TO 0.299
4	0.199 AND BELOW

CLASS 1 LOSS COEFFICIENT HAS THE LEAST RESISTANCE TO AIRFLOW.

1. CORE AREA IS THE FRONT OPENING OF A LOUVER ASSEMBLY WITH THE BLADES REMOVED.
2. CORE AREA VELOCITY IS THE AIRFLOW RATE THROUGH THE LOUVER DIVIDED BY THE CORE AREA (39.37"x39.37").
3. FREE AREA IS THE MINIMUM AREA THROUGH WHICH AIR CAN PASS. IT IS DETERMINED BY MULTIPLYING THE SUM OF THE MINIMUM DISTANCES BETWEEN INTERMEDIATE BLADES, TOP BLADE AND HEAD, BOTTOM BLADE AND SILL, BY THE MINIMUM DISTANCE BETWEEN JAMBS.
4. DISCHARGE LOSS COEFFICIENT IS CALCULATED BY DIVIDING A LOUVER ACTUAL AIRFLOW RATE VS. A THEORETICAL AIRFLOW FOR THE OPENING, PROVIDING AN INDICATION OF THE LOUVER AIR FLOW CHARACTERISTICS.



ARROW UNITED CERTIFIES THAT THE MODEL EA-475-DH SHOWN HEREIN IS LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS AND PROCEDURES PERFORMED IN ACCORDANCE WITH THE AMCA PUBLICATION 511 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM. THE AMCA CERTIFIED RATINGS SEAL APPLIES TO AIR PERFORMANCE AND WIND DRIVEN RAIN RATINGS ONLY.